

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/13172

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04S1/00 H04S3/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04S H04B H04N G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/55998 A (KONINKL PHILIPS ELECTRONICS NV ;PHILIPS SVENSKA AB (SE)) 10 December 1998 (1998-12-10) page 1, lines 1-3 page 3, line 14 - page 7, line 1	1, 3
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 06, 28 June 1996 (1996-06-28) -& JP 08 031096 A (MATSUSHITA ELECTRIC IND CO LTD), 2 February 1996 (1996-02-02) abstract; figures 1-6	2, 4
A	EP 1 021 044 A (THOMSON BRANDT GMBH) 19 July 2000 (2000-07-19) page 2, line 48 - page 3, line 1 page 3, line 33 - page 5, line 21	1-4
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

2 June 2004

Date of mailing of the international search report

16/06/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Zanti, P

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/13172

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 06, 4 June 2002 (2002-06-04) -& JP 2002 044543 A (ALPINE ELECTRONICS INC), 8 February 2002 (2002-02-08) abstract -----	1-4

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13172

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 9855998	A	10-12-1998	AT BR CN DE DE EP HU WO JP US	244920 T 9804955 A 1123885 B 69816242 D1 69816242 T2 0920698 A2 0001912 A2 9855998 A2 2001505348 T 6694030 B1		15-07-2003 24-08-1999 08-10-2003 14-08-2003 27-05-2004 09-06-1999 28-10-2000 10-12-1998 17-04-2001 17-02-2004
JP 08031096	A	02-02-1996		NONE		
EP 1021044	A	19-07-2000	EP CN EP JP US	1021044 A1 1260671 A ,B 1020998 A2 2000236543 A 6487528 B1		19-07-2000 19-07-2000 19-07-2000 29-08-2000 26-11-2002
JP 2002044543	A	08-02-2002		NONE		